

Shining Wu

Department of Logistics and Maritime Studies
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EDUCATION

- 2014 **The Hong Kong University of Science and Technology**, Hong Kong
Ph.D. in Industrial Engineering and Logistics Management
- 2009 **Peking University**, Beijing, China
B.S. in Statistics

ACADEMIC EXPERIENCE

Department of Logistics and Maritime Studies, The Hong Kong Polytechnic University,
Hong Kong

Assistant Professor

Sep. 2015 – present

Department of Industrial Engineering and Logistics Management, The Hong Kong University of Science and Technology, Hong Kong

Postdoctoral Fellow

Sep. 2014 – Sep. 2015

RESEARCH INTERESTS

Sharing economy, queueing theory and its applications, data-driven optimization, strategic consumer behavior, inventory control

PUBLICATIONS

- [1] Wu, S., Q. Liu, and R. Q. Zhang (2015). The reference effects on a retailer's dynamic pricing and inventory strategies with strategic consumers. *Operations Research* 63(6), 1320–1335
- [2] Wu, S., J. Zhang, and R. Q. Zhang (2018). Management of a shared-spectrum network in wireless communications. *Operations Research* 66(4), 1119–1135
- [3] Benjaafar, S., S. Wu, H. Liu, and E. Gunnarsson (2020). Dimensioning on-demand vehicle sharing systems. Accepted for publication in *Management Science*

WORKING PAPERS

- [1] Two-sided Competition Between On-demand Service Platforms (with Shihong Xiao and Saif Benjaafar)
- [2] Capacity Provisioning of Queueing Systems with Impatient Customers: A Data-driven Approach
- [3] Operating Vehicle Sharing Systems: One-way or Roundtrip? (with Saif Benjaafar and Hanlin Liu)

PRESENTATIONS

- [1] “Dimensioning On-demand Vehicle Sharing Systems” at the 2020 INFORMS Annual Meeting, Virtual, Nov. 2020.
- [2] “Dimensioning On-demand Vehicle Sharing Systems: Theory and Insights” at The Hong Kong Polytechnic University, Hong Kong, Apr. 2020.
- [3] “Two-sided Competition Between On-demand Service Platforms” at the 2019 INFORMS Annual Meeting, Seattle, USA, Oct. 2019.
- [4] “A Learning Algorithm for Capacity Provisioning of Queueing Systems with Impatient Customers” at Mostly OM 2019 Workshop, Shenzhen, China, Jun. 2019.
- [5] “A Learning Algorithm for Capacity Provisioning of Queueing Systems with Impatient Customers” at POMS 2019 - Thirtieth Annual Conference, Washington, District of Columbia, USA, May 2019.
- [6] “Alleviating Spectrum Scarcity by Sharing – A Queueing Perspective” at INFORMS 2018 International Conference, Taipei, Taiwan, Jun. 2018.
- [7] “Management of a Shared Spectrum Network in Wireless Communications – A Queueing Approach” at the 2017 INFORMS Annual Meeting, Houston, USA, Oct. 2017.
- [8] “Management of a Shared Spectrum Network in Wireless Communications - A Queueing Approach” at INFORMS Applied Probability Society Conference 2017 (APS), Evanston, IL, USA, Jul. 2017.
- [9] “The Reference Effects on a Retailer’s Dynamic Pricing and Inventory Strategies with Strategic Consumers” at INFORMS 2016 International Conference, Hawaii, USA, Jun. 2016.
- [10] “The Reference Effects on a Retailer’s Dynamic Pricing and Inventory Strategies with Strategic Consumers” at The Fifth POMS-HK International Conference, Hong Kong, Jan. 2014.

RESEARCH GRANTS

- Research Grants Council Grant No. 15507919, 2020–2022, “Data-Driven Pricing Strategies in the Presence of Reference”, HK\$381,000, PI
- Research Grants Council Grant No. 25504517, 2018–2020, “A Data-Driven Approach for the Capacity Provisioning of Queueing Systems with Incomplete System Information”, HK\$580,000, PI
- National Natural Science Foundation of China No. 71602142, 2017–2019, “Optimal Government Supporting Policy Design to Promote New Energy Vehicles: based on Tripartite Game Among Firm, Consumers and Government”, ¥170,000, Co-Investigator (PI: Guangrui Ma)
- National Natural Science Foundation of China No. 71301032, 2014–2016, “The Impact and Preventive Strategies of Deceptive Counterfeits in a Supply Chain with Multiple Channels”, ¥205,000, Co-Investigator (PI: Jie Zhang)

SERVICE

Elected Member: Board of Faculty of Business, PolyU, Sep. 2017 – present

Member: Department Research Committee, Dept. of LMS, PolyU, Sep. 2018 – present

Organizing Committee Member: The POMS-HK International Conference, Hong Kong, January, 2017, 2018, 2020

Organizing Co-Chair: Contributed Sessions for INFORMS International Conference, Hawaii, June 2016

Reviewer for journals: Management Science, Operations Research, Manufacturing & Service Operations Management, Production and Operations Management, Naval Research Logistics, Decision Sciences, Probability in the Engineering and Informational Sciences, etc

AWARDS AND HONORS

Honorable Mention, Best Student Paper Competition at The Fifth POMS-HK International Conference, January 2014

IIE (HK) Scholarship, Institute of Industrial Engineers (Hong Kong), 2011 – 2012

COURSES TAUGHT

– LGT2106: Principles of Operations Management

– LGT5105: Managing Operations Systems